

## Chapter 77

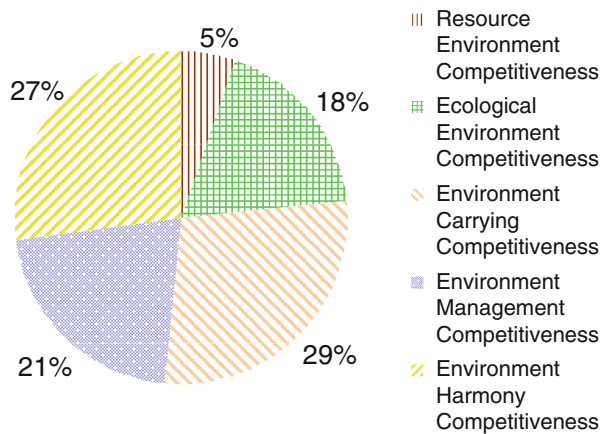
# Report on the Global Environment

## Competitiveness of Kenya

Kenya is located in Eastern Africa, borders on Somalia, Tanzania, Ethiopia and other countries, and the southeast closes to the Indian Ocean. It mainly is the Savannah climate and the tropical monsoon, which lacks of mineral resources. It covers 569 thousand square kilometres. It had a population of 41.6 million and domestic production the gross (GDP) of USD 33.6 billion in 2011. Through the evaluation of global environment competitiveness, we can know that the environment competitiveness index of Kenya ranks at 90 among 133 countries.

<b>Score:</b> <b>47.76</b>
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<b>Rank:</b> <b>90</b>
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**Fig. 77.1** Contribution of sub-index of GEC

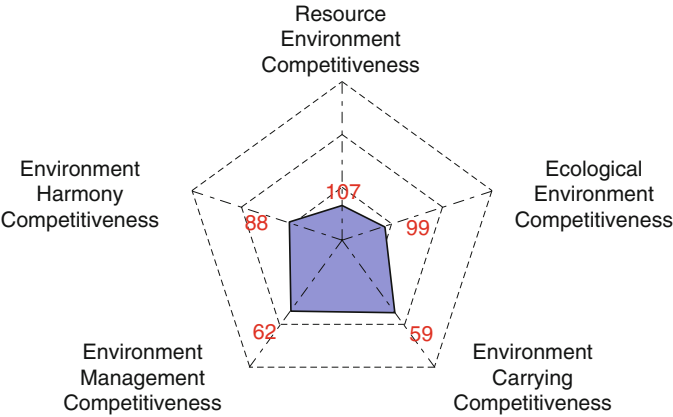


Fig. 77.2 Rank of sub-index of GEC

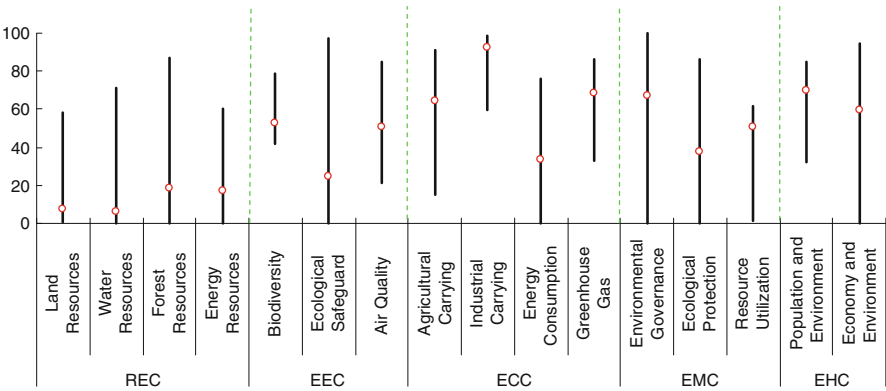


Fig. 77.3 Score and rank of the pillars of GEC

Table 77.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	12.31	107	Groundwater	0.84	110
1.1 Land Resources	7.71	104	Total internal renewable water resources	1.83	110
Land area per capita	2.44	66	1.3 Forest Resources	18.59	107
Percentage of arable land to total land area	16.26	82	Growing stock in forest and other wooded land	51.91	54
Arable land per capita	6.18	80	Proportion of land area covered by forest	7.11	109
1.2 Water Resources	6.26	105	Forest area per capita	0.58	101
Surface water	0.57	108	1.4 Energy Resources	17.26	24
Annual precipitation	21.78	87			

(continued)

**Table 77.1** (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.00	64	Energy consumption per unit of land area	99.93	36
Energy production	0.39	95	Ratio of clean energy consumption	12.20	45
Proportion of combustible renewables and waste to total energy consumption	77.95	11	Elasticity of energy consumption	13.29	102
Net energy imports of the energy consumption	10.20	57	Elasticity of electric power consumption	8.10	113
<b>2 Ecological Environment Competitiveness</b>	<b>43.56</b>	<b>99</b>	3.4 Greenhouse Gas	68.27	27
2.1 Biodiversity	52.59	120	Growth rate of CO <sub>2</sub> emissions	45.88	88
Threatened fish species	67.92	116	Growth rate of Methane emissions	61.00	48
Threatened mammal species	84.78	106	CO <sub>2</sub> emissions per unit of land area	99.98	22
Threatened plant species	92.65	112	CO <sub>2</sub> emissions per unit of energy consumption	88.59	8
GEF benefits index for biodiversity	8.80	31	<b>4 Environment Management Competitiveness</b>	<b>50.56</b>	<b>62</b>
2.2 Ecological Safeguard	24.60	58	4.1 Environmental Governance	67.00	112
Terrestrial protected areas	31.79	61	Agricultural chemicals regulation	N/A	N/A
Marine protected areas	13.81	24	Percentage of the rural population with access to an improved water source	52.00	104
2.3 Air Quality	51.02	91	Percentage of the urban population with access to an improved water source	82.00	122
Inhalable particles (PM10)	78.10	69	4.2 Ecological Protection	37.91	49
Particulate matter (PM2.5)	89.98	35	Area of plantation and afforestation	0.26	68
Index of indoor air pollution	4.20	108	Biome protect	67.20	57
Nitrogen oxides emission	66.76	88	Overfishing of fishing resources	58.82	35
Sulfur dioxide emission	40.84	45	4.3 Resource Utilization	50.99	12
<b>3 Environment Carrying Competitiveness</b>	<b>67.43</b>	<b>59</b>	Utilization rate of water resources	0.36	64
3.1 Agricultural Carrying	64.63	87	Percentage of total internal renewable water resources to total water resources	61.42	71
Cereal yield per unit of arable land	14.00	102	Percentage of agricultural land to total land area	56.80	55
Fertilizer consumption per unit of arable land	97.38	48	Percentage of fossil fuel energy consumption to total energy consumption	85.37	8
Annual freshwater withdrawals for agriculture per unit of arable land	99.40	49			
3.2 Industrial Carrying	92.36	55			
Net exports as a percentage of GDP	81.82	64			
Electric power consumption per unit of value added of industry	90.53	76			
SO <sub>2</sub> emissions per unit of value added of industry	99.68	82			
Annual freshwater withdrawals for industry per value added of industry	97.41	66			
3.3 Energy Consumption	33.38	65			

(continued)

**Table 77.1** (continued)

Indicators	Score	Rank	Indicators	Score	Rank
5 Environment Harmony Competitiveness	64.93	88	CO <sub>2</sub> emissions (metric tons per capita)	99.38	16
5.1 Population and Environment	70.19	67	Energy consumption per capita	97.30	21
Improved sanitation facilities (% of population with access)	31.00	111	5.2 Economy and Environment	59.67	92
Motor vehicles (per 1,000 people)	97.41	25	Land resource utilization efficiency	0.02	112
Renewable internal freshwater resources per capita	0.60	114	Sulfur dioxide emissions per unit of GDP	94.60	67
SO <sub>2</sub> emissions (metric tons per capita)	99.44	16	Carbon dioxide emissions per unit of GDP	89.07	62
			Energy consumption per unit of GDP	55.00	116

**Table 77.2** Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	0	2	1	5	6
Ecological Environment Competitiveness	11	0	0	2	4	5
Environment Carrying Competitiveness	15	0	2	5	6	2
Environment Management Competitiveness	10	0	1	3	3	2
Environment Harmony Competitiveness	10	0	3	0	4	3
Total	60	0	8	11	22	18

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